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|--|---------------------------|--|
|  |                           | Attorney's Docket Number                                     |
| TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. § 371 |                           | 040894-7212<br>U.S. Application No. 10/1530047<br>Unassigned |
| International Application. No.   | International Filing Date | Priority Date Claimed  |
| PCT/JP2003/012523  | September 30, 2003        | October 1, 2002  |

Title of Invention: NANOBUBBLE UTILIZATION METHOD AND DEVICE

Applicant(s) For EO/EO/US: Akira YABE and Mizuki GOTO

Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1.  This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.
2.  This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. § 371.
3.  This express request to begin national examination procedures (35 U.S.C. § 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. § 371(b) and PCT Articles 22 and 39(l).
4.  A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5.  A copy of the International Application as filed (35 U.S.C. § 371(c)(2))
  - a.  is transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  was transmitted by the International Bureau.
6.  A copy of the International Application as filed has been transmitted by the International Bureau.
7.  A translation of the International Application into English (35 U.S.C. § 371(c)(2)).
8.  Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)).
  - a.  are transmitted herewith (required only if not transmitted by the International Bureau).
  - b.  have been transmitted by the International Bureau.
  - c.  have not been made; however, the time limit for making such amendments has NOT expired.
  - d.  have not been made and will not be made.
9.  A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. § 371(c)(3)).
10.  An oath or declaration of the inventors (35 U.S.C. § 371(c)(4)).
11.  A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371(c)(5)).

**Items 11. to 14. below concern other document(s) or information included:**

12.  An Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98.
13.  An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. § 3.28 and § 3.31 is included.
14.  A FIRST preliminary amendment.
15.  A SECOND or SUBSEQUENT preliminary amendment.
15.  Other items or information:
  - a. PCT/RO/101
  - b. PCT/ISA/210 (International Search Report)
  - c. PCT/IB/304
  - d. WO 2004/030837 (Cover Page Only)

JC17 Rec'd PCT/PTO 01 APR 2005

U.S. APPLICATION NO.

107530047

Unassigned

INTERNATIONAL APPLICATION NO. | ATTORNEY DOCKET NUMBER

PCT/JP2003/012523

040894-7212

16.

The following fees are submitted:

Basic National Fee (37 C.F.R. § 1.492(a)(1)-(5)):

| NATIONAL STAGE BASIC FEE AMOUNT = |  |  | \$ 300.00 |
|-----------------------------------|--|--|-----------|
|-----------------------------------|--|--|-----------|

Surcharge of \$130.00 for furnishing the oath or declaration later than

20  30 months from the earliest claimed priority date

(37 C.F.R. § 1.492(e)).

\$

| Claims   | Number Filed | Number Extra | Rate               |
|--|--------------|--------------|--------------------|
| Total Claims   | 38 - 20 =    | 18           | X \$50.00          |
| Independent Claims   | 12 - 3 =     | 9            | X \$200.00         |
| Multiple dependent claim(s) (if applicable)  |              |              | + \$360.00         |
| Application Size Fee - \$250.00 for each additional 50 sheets that exceeds 100   |              |              | \$                 |
| Search Fee   |              |              | \$500.00           |
| Examination Fee  |              |              | \$200.00           |
| <b>TOTAL OF ABOVE CALCULATIONS</b>   |              |              | \$3,700.00         |
| Reduction by 1/2 for filing by small entity, if applicable.  |              |              |                    |
| Verified Small Entity statement must also be filed. (Note 37 C.F.R. §§ 1.9, 1.27, 1.28)  |              |              | -\$                |
| <b>SUBTOTAL =</b>  |              |              | <b>\$ 3,700.00</b> |
| Processing fee of \$130.00 for furnishing the English translation later  |              |              |                    |
| than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. § 1.492(f)). |              |              | +\$                |
| <b>TOTAL NATIONAL FEE =</b>  |              |              | <b>\$ 3,700.00</b> |
| Fee for recording the enclosed assignment (37 C.F.R. § 1.21(h)).   |              |              |                    |
| The Assignment must be accompanied by an appropriate cover sheet   |              |              |                    |
| (37 C.F.R. §§ 3.28, 3.31). \$40.00 per property  |              |              | \$ 40.00           |
| <b>TOTAL FEES ENCLOSED =</b>   |              |              | <b>\$ 3,740.00</b> |
| Amount to be refunded  |              |              | \$                 |
| Amount to be charged   |              |              | \$ 3,740.00        |

a.

A check in the amount of \$\_\_\_\_\_ to cover the above fees is enclosed.

b.

Please charge my Deposit Account No. 50-0310 in the amount of \$3,740.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c.

Except for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. § 1.16 and § 1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0310.

Date: April 1, 2005

Customer No. 09629

SEND ALL CORRESPONDENCE TO:

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